WHAT IS CLAIMED IS

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- 1. A computing system comprising:
- a first node coupled to a first communication link; and a second node coupled to the first node via said link; wherein the first node is configured to:

convey a plurality of data packets of a first type to the second node via the link, each of said packets being conveyed according to a predetermined schedule;

detect an inter-node communication message is available for transmission; and insert said message within one of said data packets.

- 2. The computing system of claim 1, wherein the first node is configured to insert said message within one of said data packets responsive to determining the message does not exceed a predetermined size.
 - 3. The computing system of claim 2, wherein in response to detecting the message exceeds said size, the first node is configured to:
- 20 partition the message into a first plurality of blocks, each of said blocks being less than or equal to said size;
 - encode the first plurality of blocks into a second plurality of blocks, said second plurality being greater than said first plurality; and insert each of the encoded blocks within a different one of said packets.

4. The computing system of claim 3, wherein the first node is further configured to generate pseudo-header information corresponding to said message and convey said pseudo-header information to said second node with said packets.

5. The computing system of claim 4, wherein said pseudo-header information is selected from the group consisting of: a unique message identifier corresponding to said message, a message type indication, a message length indication, and a sequence number corresponding to each block.

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- 6. The computing system of claim 3, wherein subsequent to receiving any combination of a number of the encoded blocks equal to the first plurality, the second node is configured to reconstruct the message.
- 7. The computing system of claim 6, wherein the link comprises a heartbeat network, and wherein the system further comprises a data network interconnect coupled to the first node and the second node.
- 8. The computing system of claim 3, wherein the first node is configured to encode the first plurality of blocks pursuant to an erasure code algorithm.
 - 9. A method of inter-node communication comprising: conveying a plurality of data packets of a first type from a first node to a second node via a communication link, each of said packets being conveyed according to a predetermined schedule;
 - detecting in the first node an inter-node communication message is available for transmission; and
 - inserting said message within one of said data packets.
- 25 10. The method of claim 9, wherein said inserting is responsive to determining the message does not exceed a predetermined size.
 - 11. The method of claim 10, wherein in response to detecting the message exceeds said size, the method further comprises:

partitioning the message into a first plurality of blocks, each of said blocks being less than or equal to said size;

encoding the first plurality of blocks into a second plurality of blocks, said second plurality being greater than said first plurality; and

5 inserting each of the encoded blocks within a different one of said packets.

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12. The method of claim 11, further comprising generating pseudo-header information corresponding to said message and conveying the pseudo-header information to said second node within said packets.

13. The method of claim 12, wherein said pseudo-header information is selected from the group consisting of: a unique message identifier corresponding to said message, a message type indication, a message length indication, and a sequence number corresponding to each block.

- 14. The method of claim 11, further comprising reconstructing the message subsequent to receiving any combination of a number of the encoded blocks, said number being at least equal to the first plurality.
- 20 15. The method of claim 14, wherein the link comprises a heartbeat network, and wherein the system further comprises a data network interconnect coupled to the first node and the second node.
- 16. The method of claim 11, wherein said encoding is pursuant to an erasure code algorithm.
 - 17. A node configured for inter-node communication, said node comprising:

- a first component configured to convey a plurality of data packets of a first type
 via a communication link, each of said packets being conveyed according
 to a predetermined schedule; and
- a second component configured to:

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- detect an inter-node communication message is available for transmission; and
 - convey said message to said first component for insertion in one of said data packets.
- 10 18. The node of claim 17, wherein the second component is configured to convey said message for insertion responsive to determining the message does not exceed a predetermined size.
- 19. The node of claim 18, wherein in response to detecting the message exceeds said
 15 size, the second component is configured to:
 - partition the message into a first plurality of blocks, each of said blocks being less than or equal to said size;
 - encode the first plurality of blocks into a second plurality of blocks, said second plurality being greater than said first plurality; and
- convey each of said encoded blocks to said first component for insertion within a different one of said packets.
 - 20. The computing system of claim 19, wherein the second component is further configured to generate pseudo-header information corresponding to said message, said pseudo-header information being selected from the group consisting of: a unique message identifier corresponding to said message, a message type indication, a message length indication, and a sequence number corresponding to each block.

- 21. The node of claim 19, wherein the second component is configured to encode the first plurality of blocks pursuant to an erasure code algorithm.
- 22. A computer accessible medium comprising program instruction, said instructions5 being executable to:

convey a plurality of data packets of a first type from a first node to a second node via a communication link, each of said packets being conveyed according to a predetermined schedule;

detect in the first node an inter-node communication message is available for transmission; and

insert said message within one of said data packets.

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- 23. The computer accessible medium of claim 22, wherein the program instructions are executable to insert said message responsive to determining the message does not exceed a predetermined size.
- 24. The computer accessible medium of claim 23, wherein in response to detecting the message exceeds said size, the program instructions are executable to:

partition the message into a first plurality of blocks, each of said blocks being less than or equal to said size;

encode the first plurality of blocks into a second plurality of blocks, said second plurality being greater than said first plurality; and insert each of the encoded blocks within a different one of said packets.

25. The computer accessible medium of claim 24, wherein said program instructions are further executable to generate pseudo-header information corresponding to said message and convey the pseudo-header information to said second node within said packets, said pseudo-header information being selected from the group consisting of: a

unique message identifier corresponding to said message, a message type indication, a message length indication, and a sequence number corresponding to each block.

- The computer accessible medium of claim 24, wherein the program instructions
 are further executable to enable the second node to reconstruct the message subsequent to receiving any combination of a number of the encoded blocks, said number being at least equal to the first plurality.
- 27. The computer accessible medium of claim 26, wherein said program instructions
 are executable to encode said blocks pursuant to an erasure code algorithm.